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 Met Ala His Ala Ser Val Ala
 1 5
 tct ctt atg aga aca ata gaa tct ctc ttg aca ttc aat tcg ccg atg 161
 Ser Leu Met Arg Thr Ile Glu Ser Leu Leu Thr Phe Asn Ser Pro Met
 10 15 20
 caa tct cta tcc tgt gat cac aga gaa gaa ctt tgc gct ctt cgt gaa 209
 Gln Ser Leu Ser Cys Asp His Arg Glu Glu Leu Cys Ala Leu Arg Glu
 25 30 35

aaa gtt agt tcc ctg gaa gta ttt gtc aag aac ttt gag aaa aac aat	257
Lys Val Ser Ser Leu Glu Val Phe Val Lys Asn Phe Glu Lys Asn Asn	
40 45 50 55	
gtt ttt ggg gaa atg acg gat ttt gaa gta gag gta aga gaa gtt gca	305
Val Phe Gly Glu Met Thr Asp Phe Glu Val Glu Val Arg Glu Val Ala	
60 65 70	
agt gct gct gaa tac aca att caa ctg aga cta aca gga act gta ctg	353
Ser Ala Ala Glu Tyr Thr Ile Gln Leu Arg Leu Thr Gly Thr Val Leu	
75 80 85	
gga gaa aat aaa agc cag aaa aaa aag gcg cgt cga agg ttt cgt caa	401
Gly Glu Asn Lys Ser Gln Lys Lys Lys Ala Arg Arg Arg Phe Arg Gln	
90 95 100	
agc ctg caa caa gta gca gag gac atg gat cat atc tgg aaa gag tcg	449
Ser Leu Gln Gln Val Ala Glu Asp Met Asp His Ile Trp Lys Glu Ser	
105 110 115	
aca aag atc caa gat aaa gga aaa caa gta tca aag gaa tca ttg gtt	497
Thr Lys Ile Gln Asp Lys Gly Lys Gln Val Ser Lys Glu Ser Leu Val	
120 125 130 135	
cat gat ttt tca agt tca aca aac gat att ttg aag gtt aag aac aat	545
His Asp Phe Ser Ser Thr Asn Asp Ile Leu Lys Val Lys Asn Asn	
140 145 150	
atg gtt gga cgt gat gat caa agg aaa cag ttg tta gaa gat ctg act	593
Met Val Gly Arg Asp Asp Gln Arg Lys Gln Leu Leu Glu Asp Leu Thr	
155 160 165	
aga agc tac tct ggg gaa ccc aaa gtc atc ccg att gtc ggg atg gga	641
Arg Ser Tyr Ser Gly Glu Pro Lys Val Ile Pro Ile Val Gly Met Gly	
170 175 180	
ggc ata ggt aaa aca acc tta gca aaa gaa gtt tac aat gat gaa tca	689
Gly Ile Gly Lys Thr Thr Leu Ala Lys Glu Val Tyr Asn Asp Glu Ser	
185 190 195	
att cta tgc cgt ttt gat gtt cat gcc tgg gct acc ata tct caa cag	737
Ile Leu Cys Arg Phe Asp Val His Ala Trp Ala Thr Ile Ser Gln Gln	
200 205 210 215	
cac aac aaa aag gaa att ttg ctg ggc ctt ctg cat tcc aca atc aaa	785
His Asn Lys Lys Glu Ile Leu Leu Gly Leu Leu His Ser Thr Ile Lys	
220 225 230	
atg gat gac agg gtt aag atg att ggt gaa gca gag cta gca gac atg	833
Met Asp Asp Arg Val Lys Met Ile Gly Glu Ala Glu Leu Ala Asp Met	
235 240 245	
tta cag aaa agt tta aag aga aag agg tac tta att gtc ttg gat gat	881
Leu Gln Lys Ser Leu Lys Arg Lys Arg Tyr Leu Ile Val Leu Asp Asp	
250 255 260	
atc tgg agt tgt gaa gtg tgg gat ggc gtg aga cga tgc ttt cca act	929
Ile Trp Ser Cys Glu Val Trp Asp Gly Val Arg Arg Cys Phe Pro Thr	
265 270 275	

gaa gac aat gca ggg agt cga ata ctg ttg act acc cgt aat gat gaa	977
Glu Asp Asn Ala Gly Ser Arg Ile Leu Leu Thr Thr Arg Asn Asp Glu	
280 285 290 295	
gta gct tgt tat gct ggt gta gag aat ttt tct ttg cgg atg agc ttc	1025
Val Ala Cys Tyr Ala Gly Val Glu Asn Phe Ser Leu Arg Met Ser Phe	
300 305 310	
atg gat caa gat gag agt tgg agt ctt ttc aaa agt gca gca ttt tca	1073
Met Asp Gln Asp Glu Ser Trp Ser Leu Phe Lys Ser Ala Ala Phe Ser	
315 320 325	
agt gaa gca tta cca tat gag ttc gag act gtt gga aag caa atc gca	1121
Ser Glu Ala Leu Pro Tyr Glu Phe Glu Thr Val Gly Lys Gln Ile Ala	
330 335 340	
gat gaa tgt cac ggg tta cca cta act att gtc gtg gtt gca ggg ctt	1169
Asp Glu Cys His Gly Leu Pro Leu Thr Ile Val Val Val Ala Gly Leu	
345 350 355	
ctc aaa tct aaa agg aca ata gaa gat tgg aaa act gtt gct aaa gat	1217
Leu Lys Ser Lys Arg Thr Ile Glu Asp Trp Lys Thr Val Ala Lys Asp	
360 365 370 375	
gtc aag tca ttc gtc aca aat gat cct gat gaa cga tgt tca cgt gtg	1265
Val Lys Ser Phe Val Thr Asn Asp Pro Asp Glu Arg Cys Ser Arg Val	
380 385 390	
ctt ggg ttg agt tac gat cac ttg aca agc gat cta aaa aca tgt ctt	1313
Leu Gly Leu Ser Tyr Asp His Leu Thr Ser Asp Leu Lys Thr Cys Leu	
395 400 405	
ctg cat ttc gga att ttt cca gaa gac agt gat att cca gtg aag aat	1361
Leu His Phe Gly Ile Phe Pro Glu Asp Ser Asp Ile Pro Val Lys Asn	
410 415 420	
ttg atg aga tca tgg atg gct gag ggg ttc ctg aag ttg gaa aat gat	1409
Leu Met Arg Ser Trp Met Ala Glu Gly Phe Leu Lys Leu Glu Asn Asp	
425 430 435	
ttg gaa gga gag gtt gag aag tgt ttg caa gag ctt gtc gat aga tgt	1457
Leu Glu Gly Glu Val Glu Lys Cys Leu Gln Glu Leu Val Asp Arg Cys	
440 445 450 455	
cta gtc ctc gtc agc aag aga agt cga gat gga aca aaa att aga tca	1505
Leu Val Leu Val Ser Lys Arg Ser Arg Asp Gly Thr Lys Ile Arg Ser	
460 465 470	
tgt aag gtt cat gat cta ata tat gac ctg tgc gtg aga gaa gtt caa	1553
Cys Lys Val His Asp Leu Ile Tyr Asp Leu Cys Val Arg Glu Val Gln	
475 480 485	
agg gag aac att ttt atc atg aac gac att gtt ctt gac gta tca tat	1601
Arg Glu Asn Ile Phe Ile Met Asn Asp Ile Val Leu Asp Val Ser Tyr	
490 495 500	
cca gaa tgt tca tat ctc tgt atg tat aaa atg cag ccc ttt aag cgc	1649
Pro Glu Cys Ser Tyr Leu Cys Met Tyr Lys Met Gln Pro Phe Lys Arg	
505 510 515	
gtg act ggt gat gaa att aat tat tgt ccc tat ggt ctt tat agg gct	1697

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Val Thr Gly Asp Glu Ile Asn Tyr Cys Pro Tyr Gly Leu Tyr Arg Ala	520	525	530	535	
ctt ctt acc cct gta aat cgt cag ttg aga gat cat gac aac aac aat	1745				
Leu Leu Thr Pro Val Asn Arg Gln Leu Arg Asp His Asp Asn Asn Asn	540	545	550		
ctt ttg aaa cga acc cat tct gtt ttc tct ttt cat ctt gag cct tta	1793				
Leu Leu Lys Arg Thr His Ser Val Phe Ser Phe His Leu Glu Pro Leu	555	560	565		
tat tat gtt ctc aaa tca gag gtt gtt cat ttc aaa tta ctc aaa gtc	1841				
Tyr Tyr Val Leu Lys Ser Glu Val Val His Phe Lys Leu Leu Lys Val	570	575	580		
ttg gag ctg aga cac aga cag att gat ggt ttc cct cga gag ata cta	1889				
Leu Glu Leu Arg His Arg Gln Ile Asp Gly Phe Pro Arg Glu Ile Leu	585	590	595		
agc ctc atc tgg ttg agg tac cta tca ttg ttc agc tat ggg aat ttc	1937				
Ser Leu Ile Trp Leu Arg Tyr Leu Ser Leu Phe Ser Tyr Gly Asn Phe	600	605	610	615	
gat gta cct cca gaa att tgc agg tta tgg aat ctg cag aca ttc att	1985				
Asp Val Pro Pro Glu Ile Cys Arg Leu Trp Asn Leu Gln Thr Phe Ile	620	625	630		
gtt caa cgg ttt cga tca gat ata ata att ttt gct gag gaa att tgg	2033				
Val Gln Arg Phe Arg Ser Asp Ile Ile Ile Phe Ala Glu Glu Ile Trp	635	640	645		
gaa cta atg caa tta agg cat ctt aaa ctg ccc aga ttt tat ttg cca	2081				
Glu Leu Met Gln Leu Arg His Leu Lys Leu Pro Arg Phe Tyr Leu Pro	650	655	660		
gat tgc cca agt gga tct gtt gac aaa gga agg cac ttg gat ttt tca	2129				
Asp Cys Pro Ser Gly Ser Val Asp Lys Gly Arg His Leu Asp Phe Ser	665	670	675		
aac tta caa act att tct tac ttg tct cca cgt tgt tgc acg aag gag	2177				
Asn Leu Gln Thr Ile Ser Tyr Leu Ser Pro Arg Cys Cys Thr Lys Glu	680	685	690	695	
gtt att atg ggg att cag aat gtc aaa aaa tta gga atc agt gga aat	2225				
Val Ile Met Gly Ile Gln Asn Val Lys Lys Leu Gly Ile Ser Gly Asn	700	705	710		
aag gat gac tat aaa agt ttt cgg gac tct ggg ctt ccc aac aat ctt	2273				
Lys Asp Asp Tyr Lys Ser Phe Arg Asp Ser Gly Leu Pro Asn Asn Leu	715	720	725		
gtc tat ctg cag caa ctt gaa ata ttg agt ctt ata tct gtt gat tat	2321				
Val Tyr Leu Gln Gln Leu Glu Ile Leu Ser Leu Ile Ser Val Asp Tyr	730	735	740		
agc ctt ttg cca gtg atc att tca agt gca aaa gct ttt cca gca acg	2369				
Ser Leu Leu Pro Val Ile Ile Ser Ser Ala Lys Ala Phe Pro Ala Thr	745	750	755		
ctc aag aag ttg aag ttg gaa aga act tat cta agc tgg tca tac ttg	2417				
Leu Lys Lys Leu Lys Leu Glu Arg Thr Tyr Leu Ser Trp Ser Tyr Leu					

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Glu Leu Cys Ala Leu Arg Glu Lys Val Ser Ser Leu Glu Val Phe Val
35 40 45

Lys Asn Phe Glu Lys Asn Asn Val Phe Gly Glu Met Thr Asp Phe Glu
50 55 60

Val Glu Val Arg Glu Val Ala Ser Ala Ala Glu Tyr Thr Ile Gln Leu
65 70 75 80

Arg Leu Thr Gly Thr Val Leu Gly Glu Asn Lys Ser Gln Lys Lys Lys
85 90 95

Ala Arg Arg Arg Phe Arg Gln Ser Leu Gln Gln Val Ala Glu Asp Met
100 105 110

Asp His Ile Trp Lys Glu Ser Thr Lys Ile Gln Asp Lys Gly Lys Gln
115 120 125

Val Ser Lys Glu Ser Leu Val His Asp Phe Ser Ser Ser Thr Asn Asp
130 135 140

Ile Leu Lys Val Lys Asn Asn Met Val Gly Arg Asp Asp Gln Arg Lys
145 150 155 160

Gln Leu Leu Glu Asp Leu Thr Arg Ser Tyr Ser Gly Glu Pro Lys Val
165 170 175

Ile Pro Ile Val Gly Met Gly Gly Ile Gly Lys Thr Thr Leu Ala Lys
180 185 190

Glu Val Tyr Asn Asp Glu Ser Ile Leu Cys Arg Phe Asp Val His Ala
195 200 205

Trp Ala Thr Ile Ser Gln Gln His Asn Lys Lys Glu Ile Leu Leu Gly
210 215 220

Leu Leu His Ser Thr Ile Lys Met Asp Asp Arg Val Lys Met Ile Gly
225 230 235 240

Glu Ala Glu Leu Ala Asp Met Leu Gln Lys Ser Leu Lys Arg Lys Arg
245 250 255

Tyr Leu Ile Val Leu Asp Asp Ile Trp Ser Cys Glu Val Trp Asp Gly
260 265 270

Val Arg Arg Cys Phe Pro Thr Glu Asp Asn Ala Gly Ser Arg Ile Leu
275 280 285

Leu Thr Thr Arg Asn Asp Glu Val Ala Cys Tyr Ala Gly Val Glu Asn
290 295 300

Phe Ser Leu Arg Met Ser Phe Met Asp Gln Asp Glu Ser Trp Ser Leu
305 310 315 320

Phe Lys Ser Ala Ala Phe Ser Ser Glu Ala Leu Pro Tyr Glu Phe Glu
325 330 335

Thr Val Gly Lys Gln Ile Ala Asp Glu Cys His Gly Leu Pro Leu Thr
340 345 350

Ile Val Val Val Ala Gly Leu Leu Lys Ser Lys Arg Thr Ile Glu Asp

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355	360	365
Trp Lys Thr Val Ala Lys Asp Val Lys Ser Phe Val Thr Asn Asp Pro 370 375 380		
Asp Glu Arg Cys Ser Arg Val Leu Gly Leu Ser Tyr Asp His Leu Thr 385 390 395 400		
Ser Asp Leu Lys Thr Cys Leu Leu His Phe Gly Ile Phe Pro Glu Asp 405 410 415		
Ser Asp Ile Pro Val Lys Asn Leu Met Arg Ser Trp Met Ala Glu Gly 420 425 430		
Phe Leu Lys Leu Glu Asn Asp Leu Glu Gly Glu Val Glu Lys Cys Leu 435 440 445		
Gln Glu Leu Val Asp Arg Cys Leu Val Leu Val Ser Lys Arg Ser Arg 450 455 460		
Asp Gly Thr Lys Ile Arg Ser Cys Lys Val His Asp Leu Ile Tyr Asp 465 470 475 480		
Leu Cys Val Arg Glu Val Gln Arg Glu Asn Ile Phe Ile Met Asn Asp 485 490 495		
Ile Val Leu Asp Val Ser Tyr Pro Glu Cys Ser Tyr Leu Cys Met Tyr 500 505 510		
Lys Met Gln Pro Phe Lys Arg Val Thr Gly Asp Glu Ile Asn Tyr Cys 515 520 525		
Pro Tyr Gly Leu Tyr Arg Ala Leu Leu Thr Pro Val Asn Arg Gln Leu 530 535 540		
Arg Asp His Asp Asn Asn Asn Leu Leu Lys Arg Thr His Ser Val Phe 545 550 555 560		
Ser Phe His Leu Glu Pro Leu Tyr Tyr Val Leu Lys Ser Glu Val Val 565 570 575		
His Phe Lys Leu Leu Lys Val Leu Glu Leu Arg His Arg Gln Ile Asp 580 585 590		
Gly Phe Pro Arg Glu Ile Leu Ser Leu Ile Trp Leu Arg Tyr Leu Ser 595 600 605		
Leu Phe Ser Tyr Gly Asn Phe Asp Val Pro Pro Glu Ile Cys Arg Leu 610 615 620		
Trp Asn Leu Gln Thr Phe Ile Val Gln Arg Phe Arg Ser Asp Ile Ile 625 630 635 640		
Ile Phe Ala Glu Glu Ile Trp Glu Leu Met Gln Leu Arg His Leu Lys 645 650 655		
Leu Pro Arg Phe Tyr Leu Pro Asp Cys Pro Ser Gly Ser Val Asp Lys 660 665 670		
Gly Arg His Leu Asp Phe Ser Asn Leu Gln Thr Ile Ser Tyr Leu Ser 675 680 685		

Pro Arg Cys Cys Thr Lys Glu Val Ile Met Gly Ile Gln Asn Val Lys
690 695 700

Lys Leu Gly Ile Ser Gly Asn Lys Asp Asp Tyr Lys Ser Phe Arg Asp
705 710 715 720

Ser Gly Leu Pro Asn Asn Leu Val Tyr Leu Gln Gln Leu Glu Ile Leu
725 730 735

Ser Leu Ile Ser Val Asp Tyr Ser Leu Leu Pro Val Ile Ile Ser Ser
740 745 750

Ala Lys Ala Phe Pro Ala Thr Leu Lys Lys Leu Lys Leu Glu Arg Thr
755 760 765

Tyr Leu Ser Trp Ser Tyr Leu Asp Ile Ile Ala Glu Leu Pro Asn Leu
770 775 780

Glu Val Leu Lys Leu Met Asp Asp Ala Cys Cys Gly Glu Glu Trp His
785 790 795 800

Pro Ile Val Met Gly Phe Asn Arg Leu Lys Leu Leu Ile Lys Tyr
805 810 815

Ser Phe Leu Lys Phe Trp Lys Ala Thr Asn Asp Asn Phe Pro Val Leu
820 825 830

Glu Arg Leu Met Ile Arg Ser Cys Lys Asn Leu Lys Glu Ile Pro Ile
835 840 845

Glu Phe Ala Asp Ile His Thr Leu Gln Leu Ile Glu Leu Arg Glu Cys
850 855 860

Pro Pro Lys Leu Gly Glu Ser Ala Ala Arg Ile Gln Lys Glu Gln Glu
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Glu Ser Asp Ser Asp Ser Glu Glu His
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Leu Thr Phe Asn Ser Pro Met Gln Ser Leu Ser Cys Asp His Arg Glu
20 25 30

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Glu Leu Cys Ala Leu Arg Glu Lys Val Ser Ser Leu Glu Val Phe Val	
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Lys Asn Phe Glu Lys Asn Asn Val Phe Gly Glu Met Thr Asp Phe Glu	
50 55 60	
gta gag gta aga gaa gtt gca agt gct gct gaa tac aca att caa ctg	240
Val Glu Val Arg Glu Val Ala Ser Ala Ala Glu Tyr Thr Ile Gln Leu	
65 70 75 80	
aga cta aca gga act gta ctg gga gaa aat aaa agc cag aaa aaa aag	288
Arg Leu Thr Gly Thr Val Leu Gly Glu Asn Lys Ser Gln Lys Lys Lys	
85 90 95	
gcg cgt cga agg ttt cgt caa agc ctg caa caa gta gca gag gac atg	336
Ala Arg Arg Arg Phe Arg Gln Ser Leu Gln Gln Val Ala Glu Asp Met	
100 105 110	
gat cat atc tgg aaa gag tcg aca aag atc caa gat aaa gga aaa caa	384
Asp His Ile Trp Lys Glu Ser Thr Lys Ile Gln Asp Lys Gly Lys Gln	
115 120 125	
gta tca aag gaa tca ttg gtt cat gat ttt tca agt tca aca aac gat	432
Val Ser Lys Glu Ser Leu Val His Asp Phe Ser Ser Ser Thr Asn Asp	
130 135 140	
att ttg aag gtt aag aac aat atg gtt gga cgt gat gat caa agg aaa	480
Ile Leu Lys Val Lys Asn Asn Met Val Gly Arg Asp Asp Gln Arg Lys	
145 150 155 160	
cag ttg tta gaa gat ctg act aga agc tac tct ggg gaa ccc aaa gtc	528
Gln Leu Leu Glu Asp Leu Thr Arg Ser Tyr Ser Gly Glu Pro Lys Val	
165 170 175	
atc ccg att gtc ggg atg gga ggc ata ggt aaa aca acc tta gca aaa	576
Ile Pro Ile Val Gly Met Gly Gly Ile Gly Lys Thr Thr Leu Ala Lys	
180 185 190	
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Glu Val Tyr Asn Asp Glu Ser Ile Leu Cys Arg Phe Asp Val His Ala	
195 200 205	
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Glu Ala Glu Leu Ala Asp Met Leu Gln Lys Ser Leu Lys Arg Lys Arg	
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Tyr Leu Ile Val Leu Asp Asp Ile Trp Ser Cys Glu Val Trp Asp Gly	
260 265 270	

gtg aga cga tgc ttt cca act gaa gac aat gca ggg agt cga ata ctg	864
Val Arg Arg Cys Phe Pro Thr Glu Asp Asn Ala Gly Ser Arg Ile Leu	
275 280 285	
ttg act acc cgt aat gat gaa gta gct tgt tat gct ggt gta gag aat	912
Leu Thr Thr Arg Asn Asp Glu Val Ala Cys Tyr Ala Gly Val Glu Asn	
290 295 300	
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Phe Ser Leu Arg Met Ser Phe Met Asp Gln Asp Glu Ser Trp Ser Leu	
305 310 315 320	
ttc aaa agt gca gca ttt tca agt gaa gca tta cca tat gag ttc gag	1008
Phe Lys Ser Ala Ala Phe Ser Ser Glu Ala Leu Pro Tyr Glu Phe Glu	
325 330 335	
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Thr Val Gly Lys Gln Ile Ala Asp Glu Cys His Gly Leu Pro Leu Thr	
340 345 350	
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Ile Val Val Val Ala Gly Leu Leu Lys Ser Lys Arg Thr Ile Glu Asp	
355 360 365	
tggtg aaa act gtt gct aaa gat gtc aag tca ttc gtc aca aat gat cct	1152
Trp Lys Thr Val Ala Lys Asp Val Lys Ser Phe Val Thr Asn Asp Pro	
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gat gaa cga tgt tca cgt gtg ctt ggg ttg agt tac gat cac ttg aca	1200
Asp Glu Arg Cys Ser Arg Val Leu Gly Leu Ser Tyr Asp His Leu Thr	
385 390 395 400	
agc gat cta aaa aca tgt ctt ctg cat ttc gga att ttt cca gaa gac	1248
Ser Asp Leu Lys Thr Cys Leu Leu His Phe Gly Ile Phe Pro Glu Asp	
405 410 415	
agt gat att cca gtg aag aat ttg atg aga tca tgg atg gct gag ggg	1296
Ser Asp Ile Pro Val Lys Asn Leu Met Arg Ser Trp Met Ala Glu Gly	
420 425 430	
ttc ctg aag ttg gaa aat gat ttg gaa gga gag gtt gag aag tgt ttg	1344
Phe Leu Lys Leu Glu Asn Asp Leu Glu Gly Glu Val Glu Lys Cys Leu	
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caa gag ctt gtc gat aga tgt cta gtc ctc gtc agc aag aga agt cga	1392
Gln Glu Leu Val Asp Arg Cys Leu Val Leu Val Ser Lys Arg Ser Arg	
450 455 460	
gat gga aca aaa att aga tca tgt aag gtt cat gat cta ata tat gac	1440
Asp Gly Thr Lys Ile Arg Ser Cys Lys Val His Asp Leu Ile Tyr Asp	
465 470 475 480	
ctg tgc gtg aga gaa gtt caa agg gag aac att ttt atc atg aac gac	1488
Leu Cys Val Arg Glu Val Gln Arg Glu Asn Ile Phe Ile Met Asn Asp	
485 490 495	
att gtt ctt gac gta tca tat cca gaa tgt tca tat ctc tgt atg tat	1536
Ile Val Leu Asp Val Ser Tyr Pro Glu Cys Ser Tyr Leu Cys Met Tyr	
500 505 510	
aaa atg cag ccc ttt aag cgc gtg act ggt gat gaa att aat tat tgt	1584

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Lys Met Gln Pro Phe Lys Arg Val Thr Gly Asp Glu Ile Asn Tyr Cys	
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ccc tat ggt ctt tat agg gct ctt ctt acc cct gta aat cgt cag ttg	1632
Pro Tyr Gly Leu Tyr Arg Ala Leu Leu Thr Pro Val Asn Arg Gln Leu	
530	535 540
aga gat cat gac aac aac aat ctt ttg aaa cga acc cat tct gtt ttc	1680
Arg Asp His Asp Asn Asn Asn Leu Leu Lys Arg Thr His Ser Val Phe	
545	550 555 560
tct ttt cat ctt gag cct tta tat tat gtt ctc aaa tca gag gtt gtt	1728
Ser Phe His Leu Glu Pro Leu Tyr Tyr Val Leu Lys Ser Glu Val Val	
565	570 575
cat ttc aaa tta ctc aaa gtc ttg gag ctg aga cac aga cag att gat	1776
His Phe Lys Leu Leu Lys Val Leu Glu Leu Arg His Arg Gln Ile Asp	
580	585 590
ggt ttc cct cga gag ata cta agc ctc atc tgg ttg agg tac cta tca	1824
Gly Phe Pro Arg Glu Ile Leu Ser Leu Ile Trp Leu Arg Tyr Leu Ser	
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ttg ttc agc tat ggg aat ttc gat gta cct cca gaa att tgc agg tta	1872
Leu Phe Ser Tyr Gly Asn Phe Asp Val Pro Pro Glu Ile Cys Arg Leu	
610	615 620
tgg aat ctg cag aca ttc att gtt caa cgg ttt cga tca gat ata ata	1920
Trp Asn Leu Gln Thr Phe Ile Val Gln Arg Phe Arg Ser Asp Ile Ile	
625	630 635 640
att ttt gct gag gaa att tgg gaa cta atg caa tta agg cat ctt aaa	1968
Ile Phe Ala Glu Glu Ile Trp Glu Leu Met Gln Leu Arg His Leu Lys	
645	650 655
ctg ccc aga ttt tat ttg cca gat tgc cca agt gga tct gtt gac aaa	2016
Leu Pro Arg Phe Tyr Leu Pro Asp Cys Pro Ser Gly Ser Val Asp Lys	
660	665 670
gga agg cac ttg gat ttt tca aac tta caa act att tct tac ttg tct	2064
Gly Arg His Leu Asp Phe Ser Asn Leu Gln Thr Ile Ser Tyr Leu Ser	
675	680 685
cca cgt tgt tgc acg aag gag gtt att atg ggg att cag aat gtc aaa	2112
Pro Arg Cys Cys Thr Lys Glu Val Ile Met Gly Ile Gln Asn Val Lys	
690	695 700
aaa tta gga atc agt gga aat aag gat gac tat aaa agt ttt cgg gac	2160
Lys Leu Gly Ile Ser Gly Asn Lys Asp Asp Tyr Lys Ser Phe Arg Asp	
705	710 715 720
tct ggg ctt ccc aac aat ctt gtc tat ctg cag caa ctt gaa ata ttg	2208
Ser Gly Leu Pro Asn Asn Leu Val Tyr Leu Gln Gln Leu Glu Ile Leu	
725	730 735
agt ctt ata tct gtt gat tat agc ctt ttg cca gtg atc att tca agt	2256
Ser Leu Ile Ser Val Asp Tyr Ser Leu Leu Pro Val Ile Ile Ser Ser	
740	745 750
gca aaa gct ttt cca gca acg ctc aag aag ttg aag ttg gaa aga act	2304
Ala Lys Ala Phe Pro Ala Thr Leu Lys Lys Leu Lys Leu Glu Arg Thr	

755	760	765	
tat cta agc tgg tca tac ttg gac atc ata gct gag ttg cct aac ctt			2352
Tyr Leu Ser Trp Ser Tyr Leu Asp Ile Ile Ala Glu Leu Pro Asn Leu			
770	775	780	
gag gtg ctg aag ctg atg gat gac gct tgt tgt ggt gaa gaa tgg cat			2400
Glu Val Leu Lys Leu Met Asp Asp Ala Cys Cys Gly Glu Glu Trp His			
785	790	795	800
cca att gtt atg gga ttt aat cga ttg aag ctt ttg cta att aaa tat			2448
Pro Ile Val Met Gly Phe Asn Arg Leu Lys Leu Leu Ile Lys Tyr			
	805	810	815
agt ttt ctc aag ttc tgg aaa gcc aca aat gac aat ttt cct gtc ctt			2496
Ser Phe Leu Lys Phe Trp Lys Ala Thr Asn Asp Asn Phe Pro Val Leu			
	820	825	830
gag cgc ctc atg att aga agt tgc aaa aat ttg aaa gag ata ccc att			2544
Glu Arg Leu Met Ile Arg Ser Cys Lys Asn Leu Lys Glu Ile Pro Ile			
	835	840	845
gag ttt gca gat ata cac aca cta cag ctg att gag tta aga gag tgt			2592
Glu Phe Ala Asp Ile His Thr Leu Gln Leu Ile Glu Leu Arg Glu Cys			
	850	855	860
cct ccc aaa ctt ggg gaa tct gct gca cga att cag aaa gaa caa gaa			2640
Pro Pro Lys Leu Gly Glu Ser Ala Ala Arg Ile Gln Lys Glu Gln Glu			
865	870	875	880
gac ctc gga aac aac cct gtg gat gtt cgt atc tca aat cca ttg aag			2688
Asp Leu Gly Asn Asn Pro Val Asp Val Arg Ile Ser Asn Pro Leu Lys			
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caagaaaatt attagtattt tttttttaa aaagtagttt gggaaagtta gtatatgtaa 180
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